

## Product datasheet for **RG228017**

### **BDKRB1 (NM\_000710) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	BDKRB1 (NM_000710) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BDKRB1
Synonyms:	B1BKR; B1R; BKB1R; BKR1; BRADYB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228017 representing NM_000710 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCATCATCTGGCCCCCTCTAGAGCTCCAATCCTCCAACCAGAGCCAGCTCTTCCCTCAAATGCTA  
CGGCTGTGACAATGCTCCAGAAGCCTGGGACCTGCTGCACAGAGTGCTGCCAACATTTATCATCTCCAT  
CTGTTTCTTCGGCCTCTAGGGAACCTTTTGTCTGTTGGTCTTCTCCTGCCCGGGCAACTGAAC  
GTGGCAGAAATCTACCTGGCCAACCTGGCAGCCTCTGATCTGGTGTGGTCTTGGCTTGCCTTCTGGG  
CAGAGAATATCTGGAACAGTTAACTGGCCTTTCGGAGCCCTCCTCTGCCGTGCATCAACGGGGTCAT  
CAAGGCCAATTTGTTTCATCAGCATCTTCTGGTGGTGGCCATCAGCCAGGACCGCTACCGCGTGGTGGT  
CACCTATGGCCAGCCGAGGCAGCAGCGGGGAGGCAGGCCCGGGTCACTGCGTGCATCTGGGTTG  
TGGGGGGCCTCTTGGCATCCCCACATTCTGCTGCGATCCATCCAAGCCGTCCCAGATCTGAACATCAC  
CGCCTGCATCCTGCTCCTCCCCATGAGGCTGGCACTTTGCAAGGATTGTGGAGTTAAATATTCTGGGT  
TTCCTCTACCACTGGCTGCGATCGTCTTCTCAACTACCACATCCTGGCCTCCTGCGAACCGGGGAGG  
AGGTCAGCAGGACAAGGTGCGGGGGCCGAAGGATAGCAAGACCACAGCGCTGATCCTCACGCTCGTGGT  
TGCTTCTCTGGTCTGCTGGGCCCTTACCACTTCTTGCCTTCTTGAATTTATTCCAGGTGCAAGCA  
GTCCGAGGCTGCTTTTGGGAGGACTTCATTGACCTGGGCTGCAATTGGCCAATCTTTGCCTTCACTA  
ACAGCTCCTGAATCCAGTAATTTATGTCTTGTGGGCCGCTCTCAGGACCAAGGTCTGGGAACCTTA  
TAAACAATGCACCCTAAAAGTCTTGTCCAATATCTTATCCCATAGGAAAGAAATCTTCCAACCTTTTC  
TGGCGGAAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG228017 representing NM\_000710  
 Red=Cloning site Green=Tags(s)

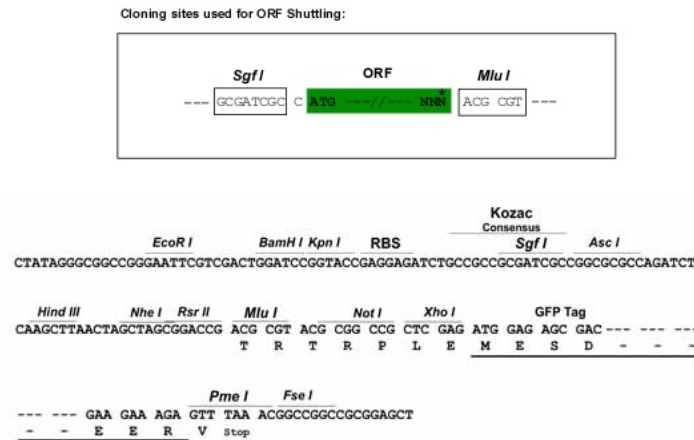
MASSWPPELEQSSNQSQLFPQNATACDNAPEAWDLLHRVLPFFIISICFFGLLGNLFVLLVFLPRRLN  
 VAEIYLANLAASDLVFLGLPFWAENIWNQFNWPFGALLCRVINGVIKANLFISIFLVVAISQDRYRVLV  
 HPMASRRQRRRQARVTCVLIIWVGGLLSIPTFLLRSIQAVPDLNITACILLLPHEAWHFARIVELNIG  
 FLLPLAAIVFFNYHILASLRTREEVSRTRCGGRKSKTTALILTLVVAFLVCWAPYHFFAFLEFLFQVQA  
 VRGCFWEDFIDLGLQLANFFAFTNSSLNPIYVVFVGRFLFRKQVWELYKQCTPKSLAPISSSHRKEIFQLF  
 WRN

TRTRPLE - GFP Tag - V

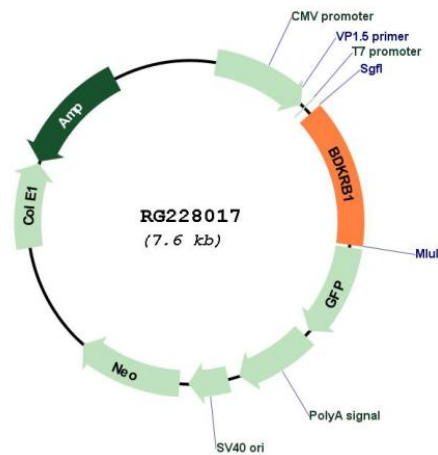
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_000710

<b>ORF Size:</b>	1059 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_000710.4</a>
<b>RefSeq Size:</b>	1307 bp
<b>RefSeq ORF:</b>	1062 bp
<b>Locus ID:</b>	623
<b>UniProt ID:</b>	<a href="#">P46663</a>
<b>Cytogenetics:</b>	14q32.2
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Calcium signaling pathway, Complement and coagulation cascades, Neuroactive ligand-receptor interaction, Regulation of actin cytoskeleton
<b>Gene Summary:</b>	Bradykinin, a 9 aa peptide, is generated in pathophysiologic conditions such as inflammation, trauma, burns, shock, and allergy. The protein encoded by this gene belongs to the G-protein coupled receptor 1 family. Two types of G-protein coupled receptors have been found which bind bradykinin and mediate responses to these pathophysiologic conditions. The protein encoded by this gene is one of these receptors and is synthesized de novo following tissue injury. Receptor binding leads to an increase in the cytosolic calcium ion concentration, ultimately resulting in chronic and acute inflammatory responses. [provided by RefSeq, Aug 2020]